FIGURES AND SEQUENCES (600-1-285P)

(locations of polymorphisms or sites of polymorphisms appear in bold underline)

FIGURE 1 AND SEQ ID NO:1

wild-type hKOR

```
   1 atggactccc cgatccagat cttccgcggg gagccgggcc ctacctgcgc cccgagcgcc
  61 tgcctgcccc ccaacagcag cgcctggttt cccggctggg ccgagcccga cagcaacggc
 121 agcgccggct cggaggacgc gcagctggag cccgcgcaca tctccccggc catcccggtc
 181 atcatcacgg cggtctactc cgtagtgttc gtcgtgggct tggtgggcaa ctcgctggtc
 241 atgttcgtga tcatccgata cacaaagatg aagacagcaa ccaacattta catatttaac
 301 ctggctttgg cagatgcttt agttactaca accatgccct ttcagagtac ggtctacttg
 361 atgaattcct ggccttttgg ggatgtgctg tgcaagatag taatttccat tgattactac
 421 aacatgttca ccagcatctt caccttgacc atgatgagcg tggaccgcta cattgccgtg
 481 tgccaccccg tgaaggcttt ggacttccgc acacccttga aggcaaagat catcaatatc
 541 tgcatctggc tgctgtcgtc atctgttggc atctctgcaa tagtccttgg aggcaccaaa
 601 gtcagggaag acgtcgatgt cattgagtgc tccttgcagt tcccagatga tgactactcc
 661 tggtgggacc tcttcatgaa gatctgcgtc ttcatctttg ccttcgtgat ccctgtcctc
 721 atcatcatcg tctgctacac cctgatgatc ctgcgtctca agagcgtccg gctccttttct
 781 ggctcccgag agaaagatcg caacctgcgt aggatcacca gactggtcct ggtggtggtg
 841 gcagtcttcg tcgtctgctg gactcccatt cacatattca tcctggtgga ggctctgggg
 901 agcacctccc acagcacagc tgctctctcc agctattact tctgcatcgc cttaggctat
 961 accaacagta gcctgaatcc cattctctac gcctttcttg atgaaaactt caagcggtgt
1021 ttccgggact tctgctttcc actgaagatg aggatggagc ggcagagcac tagcagagtc
1081 cgaaatacag ttcaggatcc tgcttacctg agggacatcg atgggatgaa taaaccagta
1141 tgactagtcg tgga
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FIGURE 2 AND SEQ ID NO:2

C852T polymorphism of hKOR

```
   1 atggactccc cgatccagat cttccgcggg gagccgggcc ctacctgcgc cccgagcgcc
  61 tgcctgcccc ccaacagcag cgcctggttt cccggctggg ccgagcccga cagcaacggc
 121 agcgccggct cggaggacgc gcagctggag cccgcgcaca tctccccggc catcccggtc
 181 atcatcacgg cggtctactc cgtagtgttc gtcgtgggct tggtgggcaa ctcgctggtc
 241 atgttcgtga tcatccgata cacaaagatg aagacagcaa ccaacattta catatttaac
 301 ctggctttgg cagatgcttt agttactaca accatgccct ttcagagtac ggtctacttg
 361 atgaattcct ggccttttgg ggatgtgctg tgcaagatag taatttccat tgattactac
 421 aacatgttca ccagcatctt caccttgacc atgatgagcg tggaccgcta cattgccgtg
 481 tgccaccccg tgaaggcttt ggacttccgc acacccttga aggcaaagat catcaatatc
 541 tgcatctggc tgctgtcgtc atctgttggc atctctgcaa tagtccttgg aggcaccaaa
 601 gtcagggaag acgtcgatgt cattgagtgc tccttgcagt tcccagatga tgactactcc
 661 tggtgggacc tcttcatgaa gatctgcgtc ttcatctttg ccttcgtgat ccctgtcctc
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 721 atcatcatcg tctgctacac cctgatgatc ctgcgtctca agagcgtccg gctcctttct
 781 ggctcccgag agaaagatcg caacctgcgt aggatcacca gactggtcct ggtggtggtg
 841 gcagtcttcg ttgtctgctg gactcccatt cacatattca tcctggtgga ggctctgggg
 901 agcacctccc acagcacagc tgctctctcc agctattact tctgcatcgc cttaggctat
 961 accaacagta gcctgaatcc cattctctac gcctttcttg atgaaaactt caagcggtgt
1021 ttccgggact tctgctttcc actgaagatg aggatggagc ggcagagcac tagcagagtc
1081 cgaaatacag ttcaggatcc tgcttacctg agggacatcg atgggatgaa taaaccagta
1141 tgactagtcg tgga
```

FIGURE 3 AND SEQ ID NO:3

C948T polymorphism of hKOR

```
   1 atggactccc cgatccagat cttccgcggg gagccgggcc ctacctgcgc cccgagcgcc
  61 tgcctgcccc ccaacagcag cgcctggttt cccggctggg ccgagcccga cagcaacggc
 121 agcgccggct cggaggacgc gcagctggag cccgcgcaca tctccccggc catcccggtc
 181 atcatcacgg cggtctactc cgtagtgttc gtcgtgggct tggtgggcaa ctcgctggtc
 241 atgttcgtga tcatccgata cacaaagatg aagacagcaa ccaacattta catatttaac
 301 ctggctttgg cagatgcttt agttactaca accatgccct ttcagagtac ggtctacttg
 361 atgaattcct ggccttttgg ggatgtgctg tgcaagatag taatttccat tgattactac
 421 aacatgttca ccagcatctt caccttgacc atgatgagcg tggaccgcta cattgccgtg
 481 tgccaccccg tgaaggcttt ggacttccgc acacccttga aggcaaagat catcaatatc
 541 tgcatctggc tgctgtcgtc atctgttggc atctctgcaa tagtccttgg aggcaccaaa
 601 gtcagggaag acgtcgatgt cattgagtgc tccttgcagt tcccagatga tgactactcc
 661 tggtgggacc tcttcatgaa gatctgcgtc ttcatctttg ccttcgtgat ccctgtcctc
 721 atcatcatcg tctgctacac cctgatgatc ctgcgtctca agagcgtccg gctcctttct
 781 ggctcccgag agaaagatcg caacctgcgt aggatcacca gactggtcct ggtggtggtg
 841 gcagtcttcg tcgtctgctg gactcccatt cacatattca tcctggtgga ggctctgggg
 901 agcacctccc acagcacagc tgctctctcc agctattact tctgcattgc cttaggctat
 961 accaacagta gcctgaatcc cattctctac gcctttcttg atgaaaactt caagcggtgt
1021 ttccgggact tctgctttcc actgaagatg aggatggagc ggcagagcac tagcagagtc
1081 cgaaatacag ttcaggatcc tgcttacctg agggacatcg atgggatgaa taaaccagta
1141 tgactagtcg tgga
```

FIGURE 4 AND SEQ ID NO:4

C1008T polymorphism of hKOR

```
   1 atggactccc cgatccagat cttccgcggg gagccgggcc ctacctgcgc cccgagcgcc
  61 tgcctgcccc ccaacagcag cgcctggttt cccggctggg ccgagcccga cagcaacggc
 121 agcgccggct cggaggacgc gcagctggag cccgcgcaca tctccccggc catcccggtc
 181 atcatcacgg cggtctactc cgtagtgttc gtcgtgggct tggtgggcaa ctcgctggtc
 241 atgttcgtga tcatccgata cacaaagatg aagacagcaa ccaacattta catatttaac
 301 ctggctttgg cagatgcttt agttactaca accatgccct ttcagagtac ggtctacttg
 361 atgaattcct ggccttttgg ggatgtgctg tgcaagatag taatttccat tgattactac
 421 aacatgttca ccagcatctt caccttgacc atgatgagcg tggaccgcta cattgccgtg
```

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 481 tgccaccccg tgaaggcttt ggacttccgc acacccttga aggcaaagat catcaatatc
 541 tgcatctggc tgctgtcgtc atctgttggc atctctgcaa tagtccttgg aggcaccaaa
 601 gtcagggaag acgtcgatgt cattgagtgc tccttgcagt tcccagatga tgactactcc
 661 tggtgggacc tcttcatgaa gatctgcgtc ttcatctttg ccttcgtgat ccctgtcctc
 721 atcatcatcg tctgctacac cctgatgatc ctgcgtctca agagcgtccg gctcctttct
 781 ggctcccgag agaaagatcg caacctgcgt aggatcacca gactggtcct ggtggtggtg
 841 gcagtgttcg tcgtctgctg gactcccatt cacatattca tcctggtgga ggctctgggg
 901 agcacctccc acagcacagc tgctctctcc agctattact tctgcatcgc cttaggctat
 961 accaacagta gcctgaatcc cattctctac gcctttcttg atgaaaattt caagcggtgt
1021 ttccgggact tctgctttcc actgaagatg aggatggagc ggcagagcac tagcagagtc
1081 cgaaatacag ttcaggatcc tgcttacctg agggacatcg atgggatgaa taaaccagta
1141 tgactagtcg tgga
```

FIGURE 5 AND SEQ ID NO:5

G36T polymorphism of hKOR

```
   1 atggactccc cgatccagat cttccgcggg gagcctggcc ctacctgcgc cccgagcgcc
  61 tgcctgcccc ccaacagcag cgcctggttt cccggctggg ccgagcccga cagcaacggc
 121 agcgccggct cggaggacgc gcagctggag cccgcgcaca tctccccggc catcccggtc
 181 atcatcacgg cggtctactc cgtagtgttc gtcgtgggct tggtgggcaa ctcgctggtc
 241 atgttcgtga tcatccgata cacaaagatg aagacagcaa ccaacattta catatttaac
 301 ctggctttgg cagatgcttt agttactaca accatgccct ttcagagtac ggtctacttg
 361 atgaattcct ggcctttgg ggatgtgctg tgcaagatag taatttccat tgattactac
 421 aacatgttca ccagcatctt caccttgacc atgatgagcg tggaccgcta cattgccgtg
 481 tgccaccccg tgaaggcttt ggacttccgc acacccttga aggcaaagat catcaatatc
 541 tgcatctggc tgctgtcgtc atctgttggc atctctgcaa tagtccttgg aggcaccaaa
 601 gtcagggaag acgtcgatgt cattgagtgc tccttgcagt tcccagatga tgactactcc
 661 tggtgggacc tcttcatgaa gatctgcgtc ttcatctttg ccttcgtgat ccctgtcctc
 721 atcatcatcg tctgctacac cctgatgatc ctgcgtctca agagcgtccg gctcctttct
 781 ggctcccgag agaaagatcg caacctgcgt aggatcacca gactggtcct ggtggtggtg
 841 gcagtgttcg tcgtctgctg gactcccatt cacatattca tcctggtgga ggctctgggg
 901 agcacctccc acagcacagc tgctctctcc agctattact tctgcatcgc cttaggctat
 961 accaacagta gcctgaatcc cattctctac gcctttcttg atgaaaacct caagcggtgt
1021 ttccgggact tctgctttcc actgaagatg aggatggagc ggcagagcac tagcagagtc
1081 cgaaatacag ttcaggatcc tgcttacctg agggacatcg atgggatgaa taaaccagta
1141 tgactagtcg tgga
```

FIGURE 6 AND SEQ ID NO:6

A843G polymorphism of hKOR

```
   1 atggactccc cgatccagat cttccgcggg gagccgggcc ctacctgcgc cccgagcgcc
  61 tgcctgcccc ccaacagcag cgcctggttt cccggctggg ccgagcccga cagcaacggc
 121 agcgccggct cggaggacgc gcagctggag cccgcgcaca tctccccggc catcccggtc
 181 atcatcacgg cggtctactc cgtagtgttc gtcgtgggct tggtgggcaa ctcgctggtc
```

```
 241 atgttcgtga tcatccgata cacaaagatg aagacagcaa ccaacattta catatttaac
 301 ctggctttgg cagatgcttt agttactaca accatgccct ttcagagtac ggtctacttg
 361 atgaattcct ggccttttgg ggatgtgctg tgcaagatag taatttccat tgattactac
 421 aacatgttca ccagcatctt caccttgacc atgatgagcg tggaccgcta cattgccgtg
 481 tgccaccccg tgaaggcttt ggacttccgc acacccttga aggcaaagat catcaatatc
 541 tgcatctggc tgctgtcgtc atctgttggc atctctgcaa tagtccttgg aggcaccaaa
 601 gtcagggaag acgtcgatgt cattgagtgc tccttgcagt tcccagatga tgactactcc
 661 tggtgggacc tcttcatgaa gatctgcgtc ttcatctttg ccttcgtgat ccctgtcctc
 721 atcatcatcg tctgctacac cctgatgatc ctgcgtctca agagcgtccg gctcctttct
 781 ggctcccgag agaaagatcg caacctgcgt aggatcacca gactggtcct ggtggtggtg
 841 gcggtcttcg tcgtctgctg gactcccatt cacatattca tcctggtgga ggctctgggg
 901 agcacctccc acagcacagc tgctctctcc agctattact tctgcatcgc cttaggctat
 961 accaacagta gcctgaatcc cattctctac gcctttcttg atgaaaactt caagcggtgt
1021 ttccgggact tctgctttcc actgaagatg aggatggagc ggcagagcac tagcagagtc
1081 cgaaatacag ttcaggatcc tgcttacctg agggacatcg atgggatgaa taaaccagta
1141 tgactagtcg tgga
```

FIGURE 7 AND SEQ ID NO:7

C846T polymorphism of hKOR

```
   1 atggactccc cgatccagat cttccgcggg gagccggccc ctacctgcgc cccgagcgcc
  61 tgcctgcccc ccaacagcag cgcctggttt cccggctggg ccgagcccga cagcaacggc
 121 agcgccggct cggaggacgc gcagctggag cccgcgcaca tctccccggc catcccggtc
 181 atcatcacgg cggtctactc cgtagtgttc gtcgtgggct tggtgggcaa ctcgctggtc
 241 atgttcgtga tcatccgata cacaaagatg aagacagcaa ccaacattta catatttaac
 301 ctggctttgg cagatgcttt agttactaca accatgccct ttcagagtac ggtctacttg
 361 atgaattcct ggccttttgg ggatgtgctg tgcaagatag taatttccat tgattactac
 421 aacatgttca ccagcatctt caccttgacc atgatgagcg tggaccgcta cattgccgtg
 481 tgccaccccg tgaaggcttt ggacttccgc acacccttga aggcaaagat catcaatatc
 541 tgcatctggc tgctgtcgtc atctgttggc atctctgcaa tagtccttgg aggcaccaaa
 601 gtcagggaag acgtcgatgt cattgagtgc tccttgcagt tcccagatga tgactactcc
 661 tggtgggacc tcttcatgaa gatctgcgtc ttcatctttg ccttcgtgat ccctgtcctc
 721 atcatcatcg tctgctacac cctgatgatc ctgcgtctca agagcgtccg gctcctttct
 781 ggctcccgag agaaagatcg caacctgcgt aggatcacca gactggtcct ggtggtggtg
 841 gcagttttcg tcgtctgctg gactcccatt cacatattca tcctggtgga ggctctgggg
 901 agcacctccc acagcacagc tgctctctcc agctattact tctgcatcgc cttaggctat
 961 accaacagta gcctgaatcc cattctctac gcctttcttg atgaaaactt caagcggtgt
1021 ttccgggact tctgctttcc actgaagatg aggatggagc ggcagagcac tagcagagtc
1081 cgaaatacag ttcaggatcc tgcttacctg agggacatcg atgggatgaa taaaccagta
1141 tgactagtcg tgga
```